Influenza activity in the United Kingdom is monitored using a variety of surveillance systems. The National Influenza Report which interprets the data is published weekly.

National and subnational outputs from the various surveillance systems are grouped according to the following categories:

- Community influenza surveillance
- Influenza-like illness GP consultation rates
- Influenza-confirmed hospitalisations
- All-cause mortality
- Microbiological surveillance
- Influenza vaccination

Influenza Section
Immunisations and Countermeasures Division
Centre for Infectious Disease Surveillance and Control
Public Health England
respscidsc@phe.gov.uk
Community influenza surveillance
Number of acute respiratory outbreaks by institution, UK
## Number of acute respiratory outbreaks by PHE Centre

<table>
<thead>
<tr>
<th>Centre</th>
<th>Outbreaks reported in week 06</th>
<th>Cumulative number of outbreaks since week 40</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHE North East</td>
<td>3</td>
<td>26</td>
</tr>
<tr>
<td>PHE North West</td>
<td>16</td>
<td>134</td>
</tr>
<tr>
<td>PHE Yorkshire and Humber</td>
<td>6</td>
<td>58</td>
</tr>
<tr>
<td>PHE East Midlands</td>
<td>5</td>
<td>83</td>
</tr>
<tr>
<td>PHE West Midlands</td>
<td>10</td>
<td>92</td>
</tr>
<tr>
<td>PHE East of England</td>
<td>10</td>
<td>134</td>
</tr>
<tr>
<td>PHE London</td>
<td>7</td>
<td>42</td>
</tr>
<tr>
<td>PHE South East</td>
<td>23</td>
<td>126</td>
</tr>
<tr>
<td>PHE South West</td>
<td>17</td>
<td>118</td>
</tr>
</tbody>
</table>
Influenza-like illness GP consultation rates
GP ILI consultations in the UK for all ages with MEM thresholds applied

<table>
<thead>
<tr>
<th>GP ILI consultation rates (all ages)</th>
<th>Week number</th>
</tr>
</thead>
<tbody>
<tr>
<td>England (RCGP)</td>
<td>40 41 42 43</td>
</tr>
<tr>
<td>Wales</td>
<td>4.2 3.9 4.5 3.6 5.2 6.4 6.2 7.6 8.1 9.4 8.4 14.8 19.2 19.6 17.5 19.7 23.1</td>
</tr>
<tr>
<td>Wales</td>
<td>7.0 3.6 4.2 6.6 6.3 6.4 4.5 4.7 6.5 3.2 4.5 9.0 9.5 14.7 20.4 22.9 15.7 20.4 21.4</td>
</tr>
<tr>
<td>Scotland</td>
<td>7.3 5.0 3.0 3.8 2.8 7.5 4.0 4.7 6.0 4.0 6.4 10.3 6.9 16.7 25.9 18.8 26.7 32.3 30.4</td>
</tr>
<tr>
<td>Northern Ireland</td>
<td>3.8 3.5 3.8 3.6 3.8 5.0 6.3 4.5 5.6 6.0 8.4 8.9 9.0 13.5 18.9 14.4 12.4 14.5 16.2</td>
</tr>
</tbody>
</table>

*The Moving Epidemic Method (MEM) has been adopted by the European Centre for Disease Prevention and Control to calculate thresholds for GP ILI consultations for the start of influenza activity (based on 10 seasons excluding 2009/10), in a standardised approach across Europe. For MEM threshold values for each country, please visit: https://www.gov.uk/guidance/sources-of-uk-flu-data-influenza-surveillance-in-the-uk#clinical-surveillance-through-primary-care .
Influenza-confirmed hospitalisations
Weekly ICU/HDU influenza admission rate per 100,000 trust catchment population, England, since week 40 2018

The Moving Epidemic Method (MEM) has been adopted by the European Centre for Disease Prevention and Control to calculate thresholds for ICU/HDU admission rates for the start of influenza activity (based on 6 seasons) in a standardised approach across Europe. For MEM threshold values, please visit: https://www.gov.uk/guidance/sources-of-uk-flu-data-influenza-surveillance-in-the-uk#disease-severity-and-mortality-data
Weekly ICU/HDU influenza admission rate per 100,000 trust catchment population by PHE Centre, North East, North West and Yorkshire and Humber, since week 40 2018.

- 2018/19 - North East
- 2018/19 - North West
- 2018/19 - Yorkshire and Humber
Weekly ICU/HDU influenza admission rate per 100,000 trust catchment population by PHE Centre, East Midlands, West Midlands and East of England since week 40 2018

Rate of ICU/HDU admissions per 100,000 trust catchment population

- 2018/19 - East Midlands
- 2018/19 - West Midlands
- 2018/19 - East of England

Week Number

14 February 2019
Weekly ICU/HDU influenza admission rate per 100,000 trust catchment population by PHE Centre, South East, South West and London, since week 40 2018
Influenza confirmed ICU admissions (USISS mandatory) by age and influenza subtype, since week 40 2018

[Graph showing number of ICU admissions by age group and influenza subtype from week 40 2018 to 14 February 2019]
Weekly hospitalised influenza case rate per 100,000 trust catchment population, England, since week 40 2018

Weekly hospitalised influenza admission rate per 100,000 trust catchment population by PHE region, since week 40 2018
Influenza confirmed hospital admissions (USISS sentinel) by age and influenza subtype, since week 40 2018

- **A(H1N1)pdm09**
- **A(H3N2)**
- **A unknown subtype**
- **B**

### Age group (years)
- <1
- 1-4
- 5-14
- 15-44
- 45-64
- 65+

### Number
- 0
- 200
- 400
- 600
- 800
- 1000
- 1200

14 February 2019
All-cause mortality
Excess mortality (all causes) by week of death through the EuroMOMO algorithm in 65+ year olds, England

Year week

- 2014/15 A(H3N2)
- 2015/16 A(H1N1)pdm09
- 2016/17 A(H3N2)
- 2017/18 B & A(H3N2)

Number of deaths

- Deaths (corrected)
- Baseline
- Upper 2 z-score limit
- Upper 6 z-score limit
- Upper 8 z-score limit
- Upper 10 z-score limit

14 February 2019

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Excess mortality (all causes) by week of death through the EuroMOMO algorithm in all ages, PHE North of England

![Graph showing excess mortality (all causes) by week of death through the EuroMOMO algorithm in all ages, PHE North of England. The graph includes lines for Death (corrected), Baseline, and Upper 2 z-score limit, Upper 6 z-score limit, with data points for the years 2014/15 A(H3N2), 2015/16 A(H1N1)pdm09, 2016/17 A(H3N2), and 2017/18 B and A(H3N2).]
Excess mortality (all causes) by week of death through the EuroMOMO algorithm in all ages, PHE Midlands and East of England.
Excess mortality (all causes) by week of death through the EuroMOMO algorithm in all ages, PHE London

![Graph showing excess mortality by week of death through the EuroMOMO algorithm in all ages, PHE London. The graph includes data for different years and strains of influenza, such as A(H3N2) and A(H1N1)pdm09.](image-url)
Excess mortality (all causes) by week of death through the EuroMOMO algorithm in all ages, PHE South of England
Microbiological surveillance
DataMart: Number and proportion of samples positive for influenza, by type, England

- Influenza A (n)
- Influenza B (n)
- Total influenza (%)
- 2017/18 total influenza (%)

Week number (of sample) vs. Proportion positive vs. Number of positive specimens

14 February 2019
DataMart: Number and proportion of samples positive for influenza, by type, PHE North East of England
DataMart: Number and proportion of samples positive for influenza, by type, PHE North West of England
DataMart: Number and proportion of samples positive for influenza, by type, PHE Yorkshire and Humber

Week number (of sample) vs Proportion positive (%) vs Number of positive samples

- FluA (n)
- FluB (n)
- Influenza A (%)
- Influenza B (%)

14 February 2019
DataMart: Number and proportion of samples positive for influenza, by type, PHE East Midlands of England

[Graph showing the number of positive samples and proportion positive for influenza A and B by week number of sample.]
DataMart: Number and proportion of samples positive for influenza, by type, PHE West Midlands of England

- **FluA (n)**: 40, 48, 52
- **FluB (n)**: 4, 8, 12, 16
- **Influenza A (%)**: 30, 40, 50
- **Influenza B(%)**: 0, 5
DataMart: Number and proportion of samples positive for influenza, by type, PHE East of England
DataMart: Number and proportion of samples positive for influenza, by type, PHE London

Week number (of sample)

Proportion positive (%)

Number of positive samples

FluA (n)
Influenza A (%)
FluB (n)
Influenza B (%)

0 10 20 30 40 50 60 70 80

0 50 100 150 200 250 300 350 400

40 44 48 52 4 8 12 16 20

14 February 2019

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DataMart: Number and proportion of samples positive for influenza, by type, PHE South East of England
DataMart: Number and proportion of samples positive for influenza, by type, PHE South West of England

![Graph showing the number of positive samples and proportion positive by week for influenza A and B.](image)

**Week number (of sample)**

**Proportion positive (%)**

**Number of positive samples**

- FluA (n)
- FluB (n)
- Influenza A (%)
- Influenza B(%)
DataMart: Proportion of samples positive for influenza, by age group

Week number

Proportion positive

40 44 48 52 4 8 12 16 20 24 28 32 36

65+yrs  45-64yrs  15-44yrs  5-14yrs  <5yrs
DataMart: Proportion of samples positive for other viruses

Week number

Proportion positive

Rhinovirus
Parainfluenza
hMPV
Adenovirus
Influenza vaccination
Seasonal influenza vaccine uptake in targeted groups, 2018/19, England

2018/19 season indicated by bold lines, 2017/18 season indicated by fainter dashed lines.

- 65+yrs
- <65yrs at risk
- All pregnant women
Seasonal influenza vaccine uptake in targeted groups, 2018/19, England

Vaccine uptake (%) vs Week number

- 2 years (bold line)
- 3 years (dashed line)

2018/19 season indicated by bold lines, 2017/18 season indicated by fainter dashed lines
Links

• Sources of UK flu surveillance data:

• Weekly flu report